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New National Phase Application  
12480-000145/US

## IN THE U.S. PATENT AND TRADEMARK OFFICE

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Int'l Application No.: PCT/JP2004/003988

Application No.: NEW APPLICATION

Filed: September 23, 2005

For: METHOD AND APPARATUS FOR HIGH-  
EFFICIENCY SYNTHESIS OF CARBON  
NANOSTRUCTURE, AND CARBON  
NANOSTRUCTURE (as amended)

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INFORMATION DISCLOSURE STATEMENT  
(SUBMISSION CONCURRENT WITH THE  
FILING OF A NEW PATENT APPLICATION)

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401 Dulany Street  
Alexandria, VA 22314  
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September 23, 2005

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications, or other information submitted for consideration by the Office are listed on PTO-1449, attached hereto.

II. COPIES

- ☒ Submitted herewith is a legible copy of (i) each U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.
- ☐ This application is a National Phase of a PCT application. All of the documents listed on the PTO-1449 are not enclosed because they were cited in the International Search Report and copies should be forwarded from the International Search Authority. If copies are needed, please contact the undersigned.

- ☐ Because the present application is being filed after June 30, 2003, no copies of the U.S. patents or U.S. patent application publications which are listed on the attached Form 1449 are enclosed pursuant to the waiver of 37 C.F.R. § 1.98(a)(2)(i). Any foreign patent documents or non-patent literature listed on the attached Form 1449 are enclosed herewith.

III. CONCISE EXPLANATION OF THE RELEVANCE  
(check at least one box)

a. ☒ **DOCUMENTS IN THE ENGLISH LANGUAGE**

The attached patents, publications, or other information in the English language do not require a statement of relevancy.

b. ☒ **DOCUMENTS NOT IN THE ENGLISH LANGUAGE**

A concise explanation of the relevance of all patents, publications, or other information listed that is not in the English language is as follows:

Many of the documents have been discussed in the PCT Search Report and/or throughout the specification. The PCT Search Report indicates the degree of relevance found by the PCT Office, thereby satisfying the requirement for a concise explanation. See MPEP 609(A)(3).; and

English abstracts have been provided for Japanese Patent Publication Nos. JP 2001-234341 A, JP 2001-240403 A and JP 2001-220674 A.

c. ☐ **ENGLISH LANGUAGE SEARCH REPORT**

An English language version of the search report or action that indicates the degree of relevance found by the foreign office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(A)(3).

d. ☒ **OTHER**

The following additional information is provided for the Examiner's consideration.

Applicants enclose a copy of the International Search Report.

FEES

This Information Disclosure Statement is being filed concurrently with the filing of a new patent application; therefore, no fee is required.

JC20 Rec'd PCT/PTO 23 SEP 2009

New National Phase Application

Docket No. 12480-000145/US

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule and charge the appropriate fee to Deposit Account No. 08-0750.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 08-0750 for any additional fees required under 37 C.F.R. § 1.16 or under § 1.17; particularly, extension of time fees.

Respectfully submitted,

HARNESS, DICKY & PIERCE, P.L.C.

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DJD:bof

Enclosures: ☒ Form PTO-1449(s)  
☒ Documents  
☒ International Search Report

Form PTO-1449  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  (Use several sheets if necessary)		ATTY DOCKET NO. 12480-000145/US  APPLICANT(S) Osamu SUEKANE et al.  FILING DATE September 23, 2005		APPLICATION NO. <b>10/551891</b>  CONF. NO. Unknown  GROUP Unknown		
<b>U.S. PATENT DOCUMENTS</b>						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
<b>FOREIGN PATENT DOCUMENTS</b>						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
	JP 2001-234341 A	08/31/2001	JAPAN			
	JP 2001-240403 A	09/04/2001	JAPAN			
	JP 2001-220674 A	08/14/2001	JAPAN			
<b>OTHER DOCUMENTS</b> (Include Name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.)						
	Z. F. REN, et al., Synthesis of large arrays of well-aligned carbon nanotubes on glass, SCIENCE, 1998, Vol. 282, p. 1105-1107					
	ANYUAN CAO, et al. An effective way to lower catalyst content in well-aligned carbon nanotube films, CARBON, 2001, Vol. 39, p. 152-155					
	OSAMU SUEKANE, et al., Initial growth stage of aligned carbon nanotubes, 1993.07.23, p. 63					
	International Search Report					
EXAMINER			DATE CONSIDERED			
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.						

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